

2.10 Adding & Subtracting Rational Expressions

(KEY)

1. $\frac{2}{3}$

2. $\frac{a+5}{a+4}$

3. $\frac{x-5}{2x(x+2)}$

4. $\frac{2}{x}$

5. $\frac{2x-2}{x+5}$

6. 7

7. $\frac{1}{a+1}$

8. $\frac{1}{m+6}$

9. $\frac{29}{60y}$

10. $\frac{31}{24y}$

11. $\frac{31}{36x}$

12. $\frac{x^2+11x}{(x+8)(x+5)}$

13. $\frac{-x-3}{(x-2)(x-3)}$

14. $\frac{-3}{x-1}$

15. $\frac{2x^2+3x-11}{(x-3)(x+4)(x+5)}$

16. $\frac{x-2}{2x-1}$

17. $\frac{40}{(x+5)^2(x-5)}$

18. $\frac{3(y-4)}{2y(y+2)}$

19. $\frac{-y^2-y+24}{(y+6)(y+5)(y+3)}$

20. $\frac{4x^2+5x+12}{(4x+1)(x+3)^2}$

21. $\frac{m^2-12}{(m-4)(m-3)(m+2)}$

22. $\frac{m^2+7m-6}{(m+4)(m-3)(m-2)}$

23. $\frac{-21t+33}{2t-3}$

24. $\frac{10x-12}{x(x-3)(x-1)}$

25. $\frac{-1}{x-3}$

26. $\frac{-(2x+5)}{(x+3)(x+2)}$

27. $x = 6$

28. $x = -7, x = 2$

29. $x = 2, x = 5$

30. $x = 3 \pm \sqrt{2}$